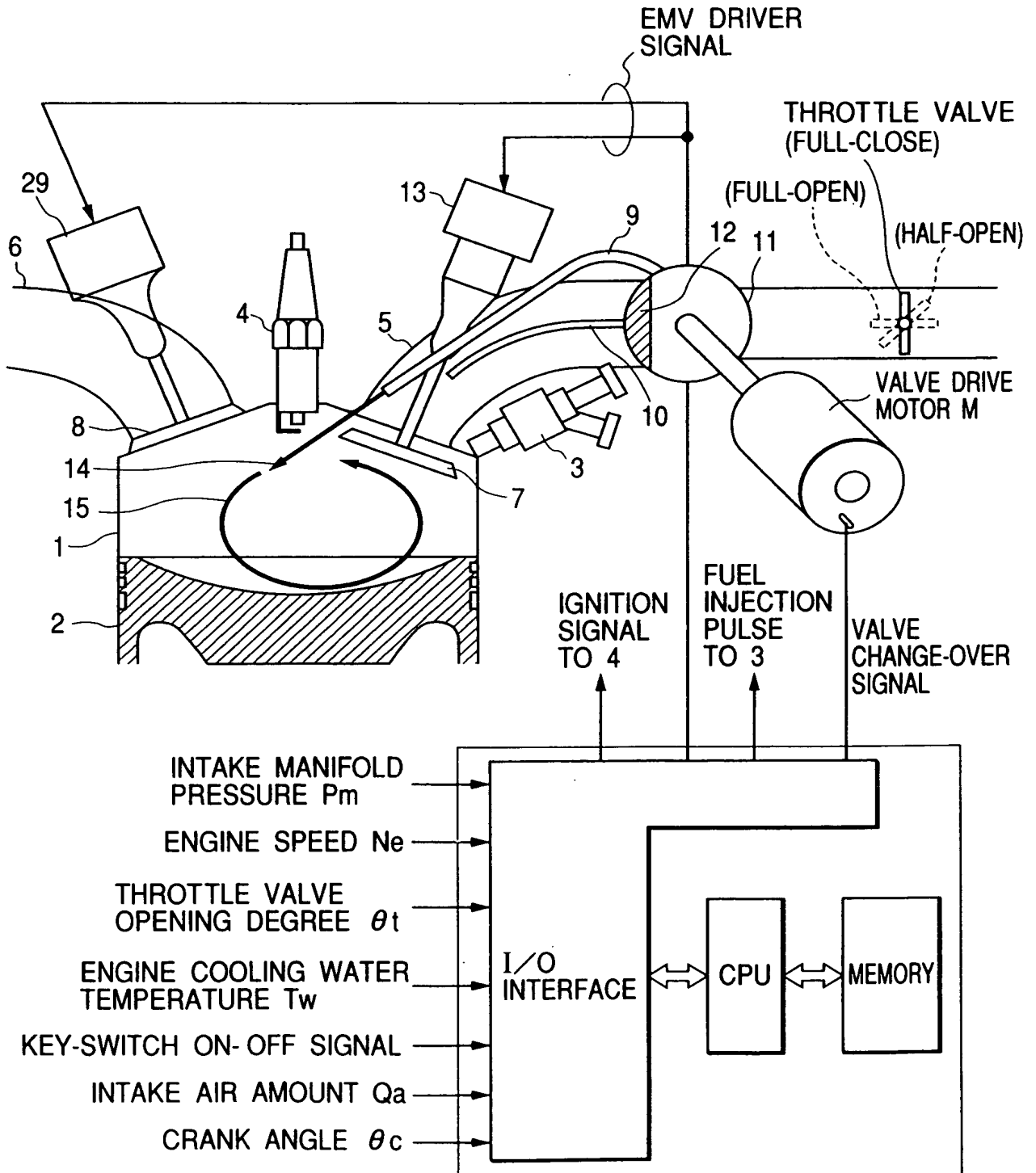


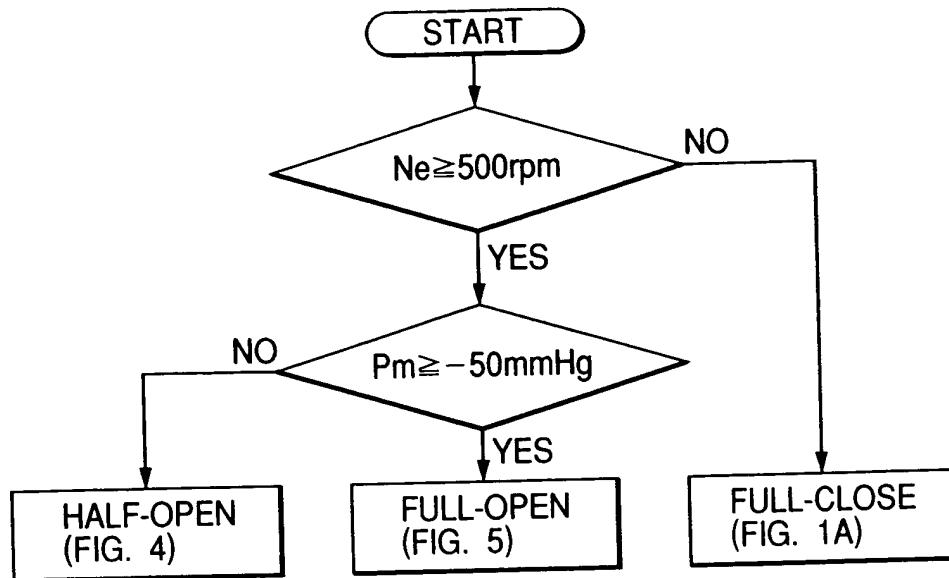
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**FIG. 1A**

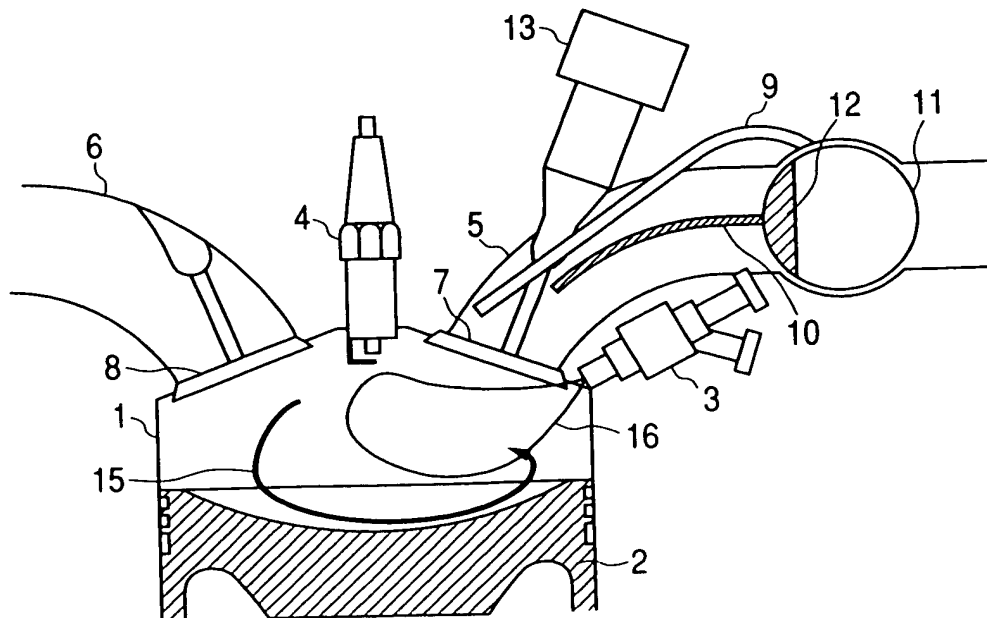


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**FIG. 1B**

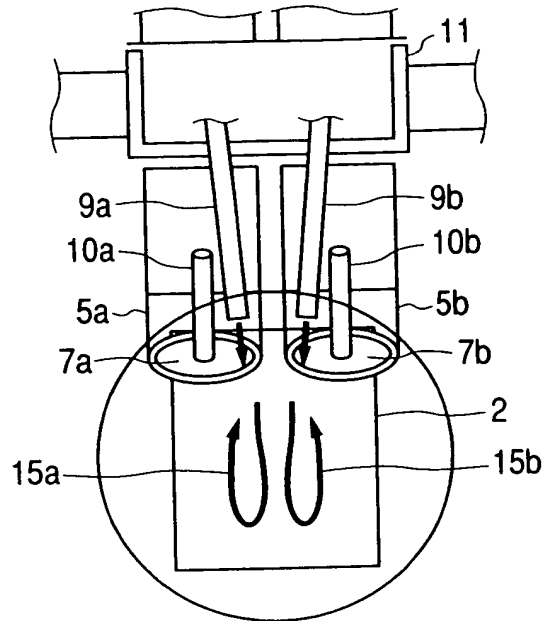


**FIG. 2**

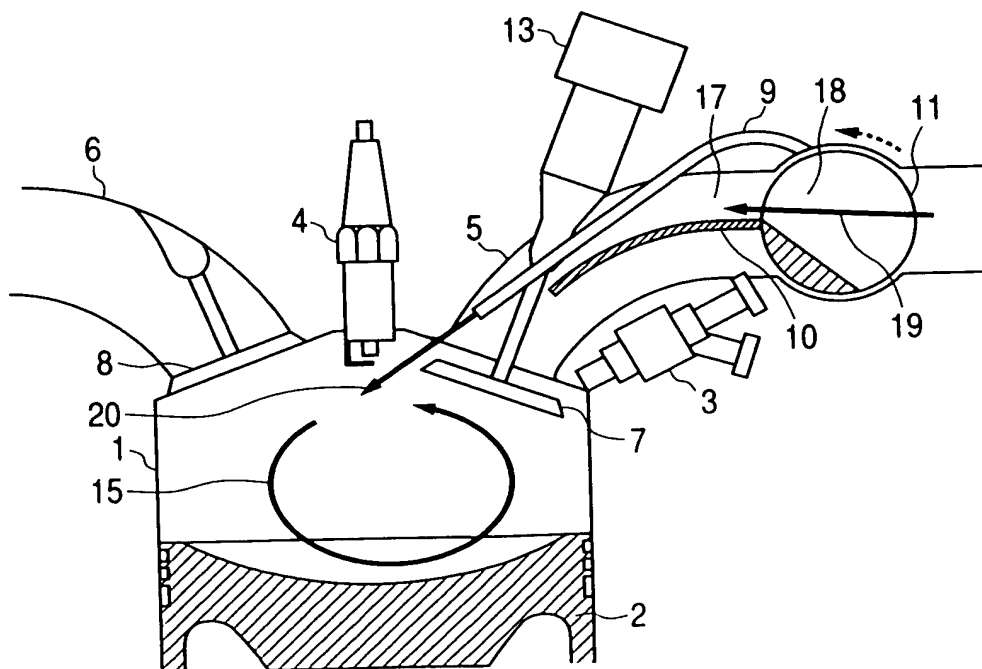


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**FIG. 3**

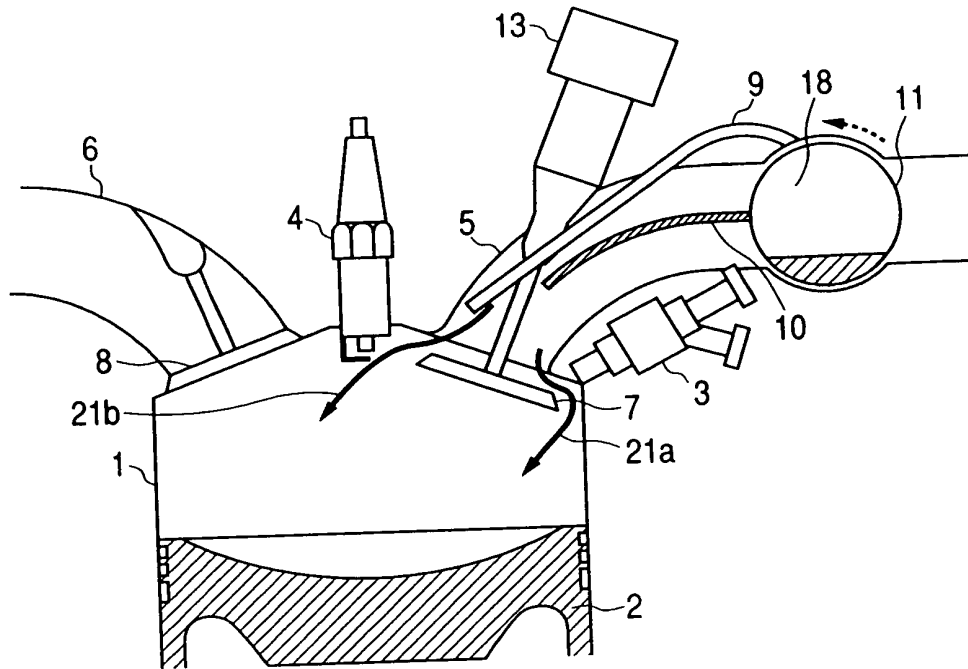


**FIG. 4**

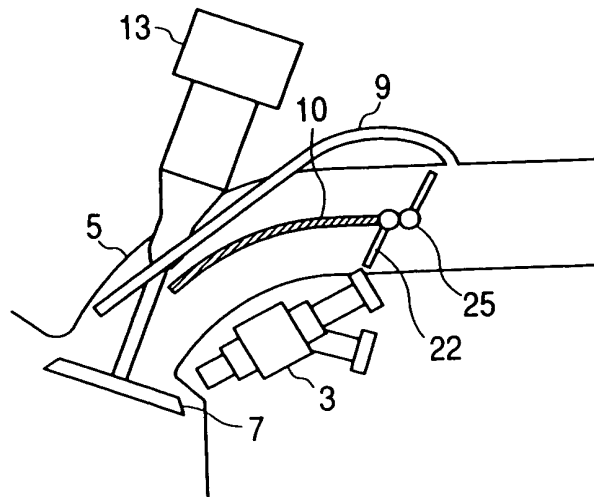


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**FIG. 5**

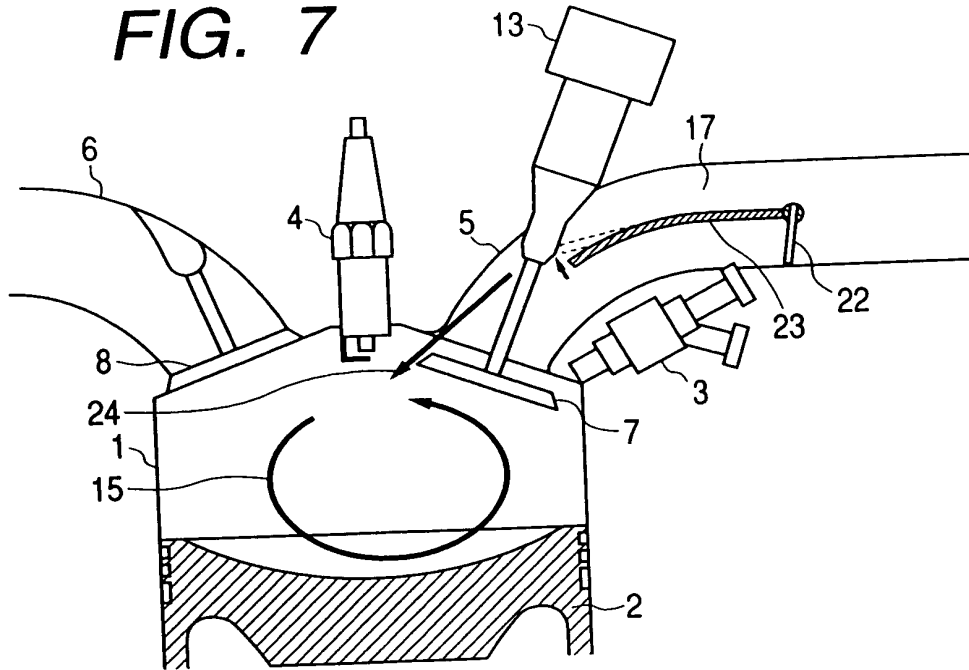


**FIG. 6**

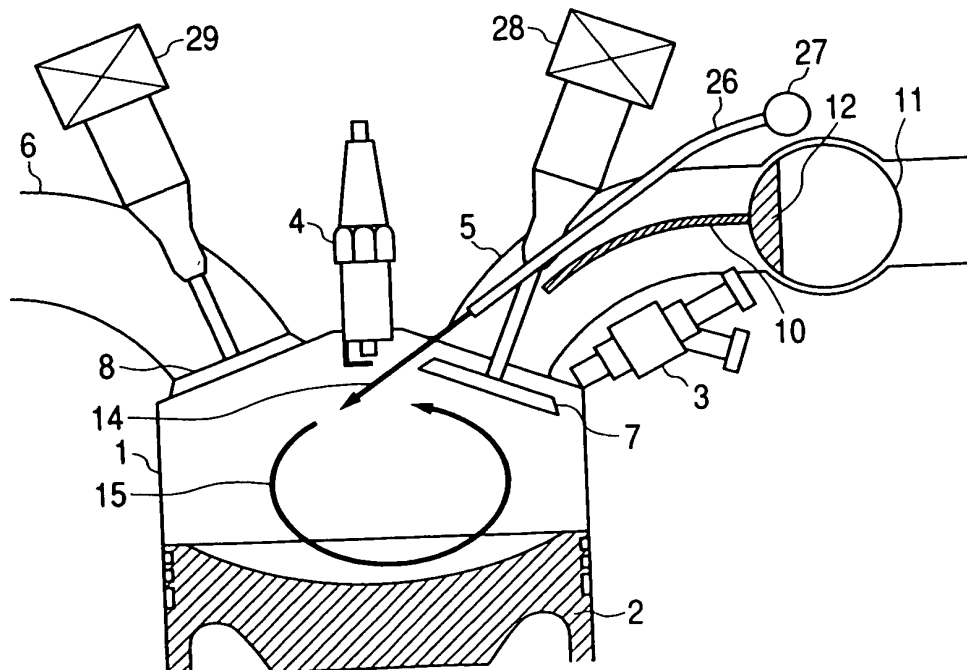


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**FIG. 7**

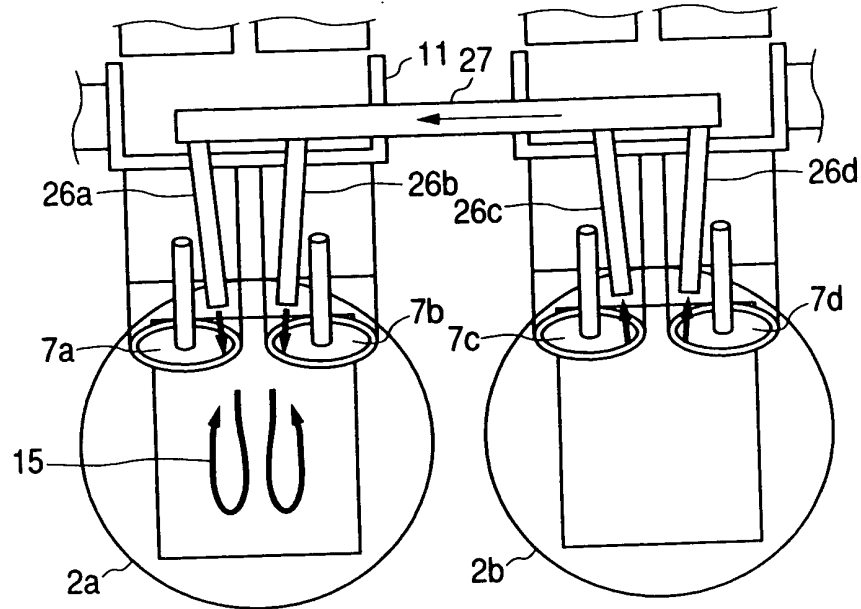


**FIG. 8**



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**FIG. 9**



**FIG. 10**

EACH OF ARROW MARKS SHOWS AN ASCENT  
AND A DESCENT OF A PISTON

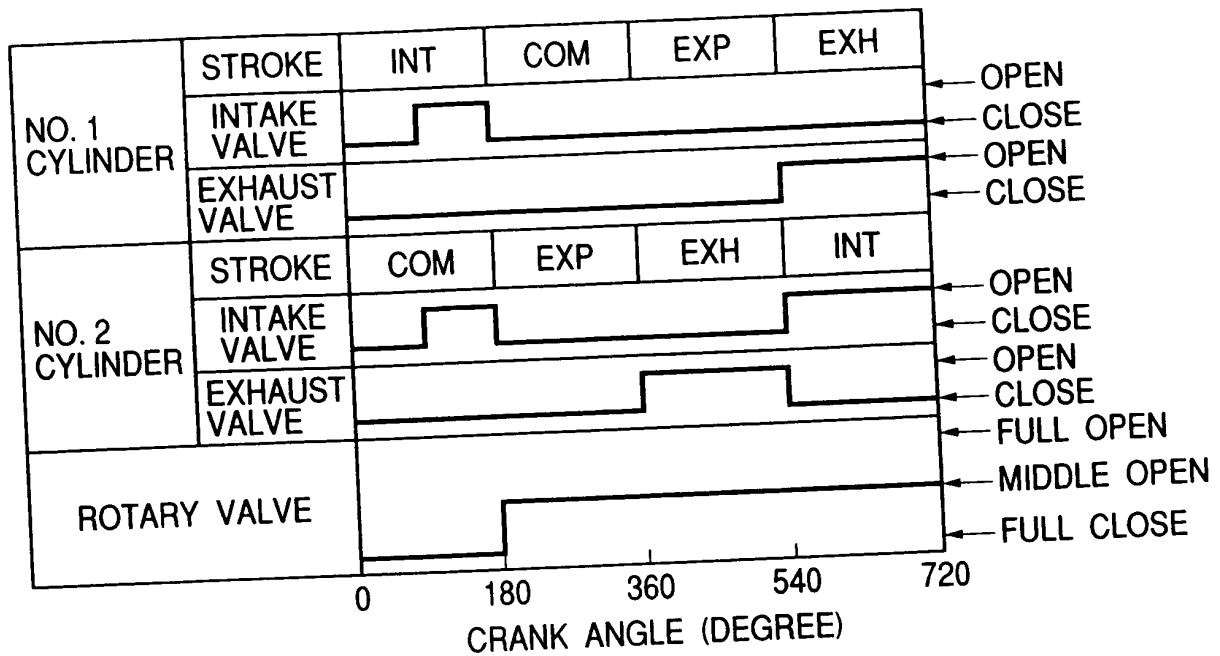
NO. 1 CYLINDER	INT ↓	COM ↑	EXP ↓	EXH ↑
NO. 3 CYLINDER	EXH ↑	INT ↓	COM ↑	EXP ↓
NO. 4 CYLINDER	EXP ↓	EXH ↑	INT ↓	COM ↑
NO. 2 CYLINDER	COM ↑	EXP ↓	EXH ↑	INT ↓

INT : INTAKE STROKE  
COM : COMPRESSION  
STROKE  
EXP : EXPLOSION STROKE  
EXH : EXHAUST STROKE

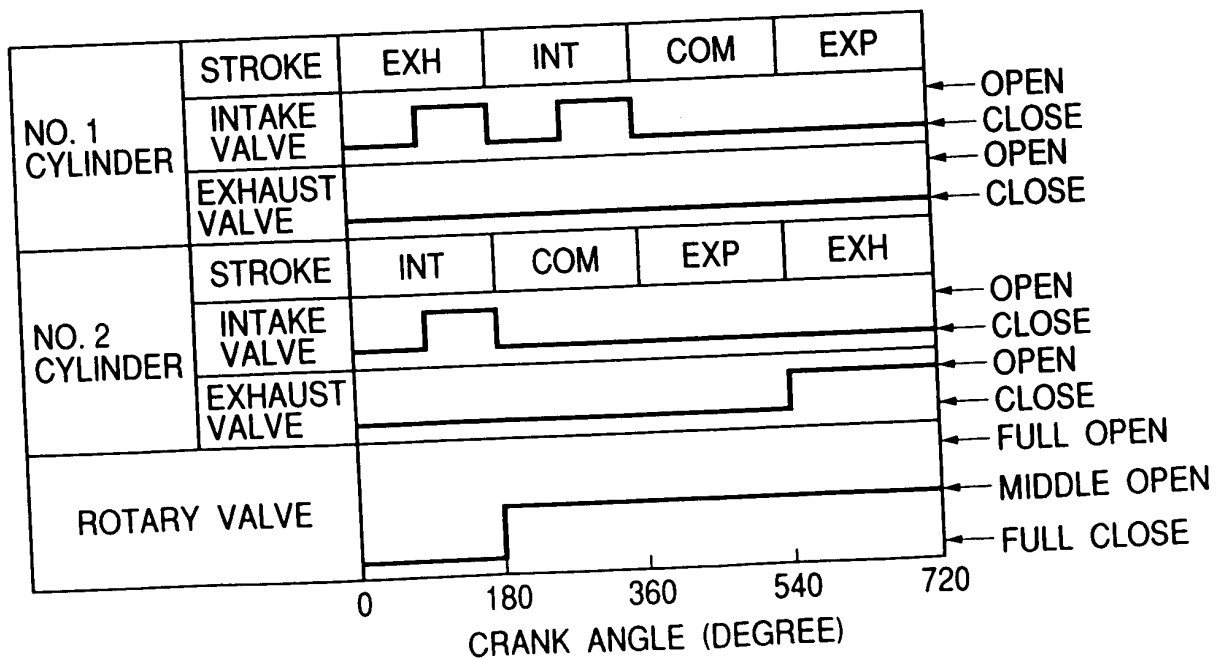
0 180 360 540 720  
CRANK ANGLE (DEGREE)

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**FIG. 11**

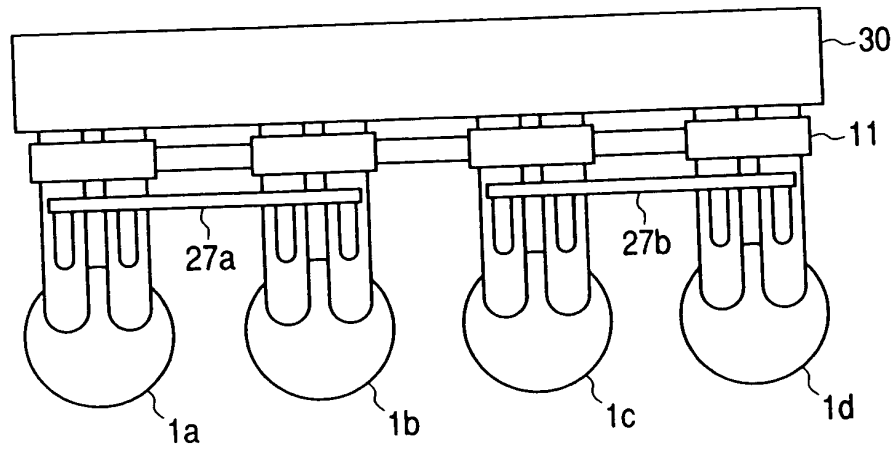


**FIG. 12**

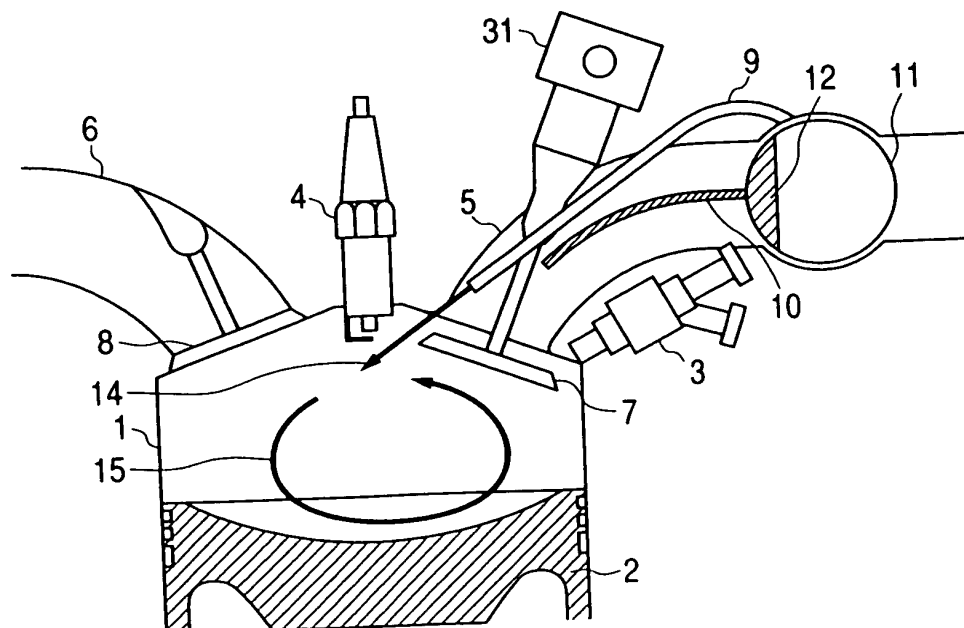


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**FIG. 13**



**FIG. 15**





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**FIG. 14**

